1.	Course title	Evaluation techniques for unstructured data search systems
2.	Course code	SBP-I-05
3.	Study program	Two-year Master studies in Computer Science and Engineering, modulus Content Based Search
4.	Unit offering the course	**FCSE**
5.	Undergraduate/master/PhD	**Master**
6.	Year/semester 1/summer/elective	7. ECTS: **6**
8.	Teacher(s)	Assistant Professor Lasko Basnarkov
9.	Course prerequisites	None
10.	Goals (competences): The student will be qualified for evaluation of the results obtained from search in some information system.	
11.	Course content: In this course are studied various techniques for evaluation of the results retrieved from search in the information system, and for proper synthesis of the results of the evaluation in certain format. Assessment and review of the performance of the search in different environments. Validation and reliability. Analysis of the results retrieved from the information search in a given information system, including document classification, search and evaluation techniques, dealing with large amount of data and using the results as feedback for search improvement. Introduction to the human-computer interaction. Design and applied perception, model description. Notation systems and their components, cognitive dimensions of notational framework. Representation artefacts. Real-time computer vision and pattern recognition. Clarke's theory of language use. Cognitive Work Analysis (CAR), CAR classes and restrictions. Activity theory and computer artefacts in terms of web technologies. Application of socio-psychological theories. Formalism and computation theory. Application of HCI in games, e-commerce, e-learning, and e-society applications.	
12.	Teaching methods: Lectures supported by slide presentations, interactive lectures, trainings (using lab equipment and software packages), team work, case studies, invited guests and lectures, individual practical assignments presentations, seminar paper, e-learning (forums, consultations).	
13.	Total available time	6 ECTS x 30 hours = 180 hours
14.	Distribution of the available time	130 + 0 + 50 = 180 hours

15.	Teaching activities	15.1.	Lectures	130 hours
		15.2.	Training (labs, problem solving), seminar and team work	0 hours
16.	Other activities	16.1.	Project work	15 hours
		16.2.	Self study	15 hours
		16.3.	Home work	20 hours
17.	Grading			
	17.1.	Tests		65 points

17.2.	Seminar work/project (written or oral presentation)		25 points
17.3.	Active participation		10 points

18.	Grading criteria	to 59 points	5 (five) (F)
		from 60 to 68 points	6 (six) (E)
		from 69 to 76 points	7 (seven) (D)
		from 77 to 84 points	8 (eight) (C)
		from 85 to 92 points	9 (nine) (B)
		from 93 to 100 points	10 (ten) (A)

19.	Final exam prerequisites	Successfully completed activities 15.1 and 15.2
20.	Course language	Macedonian and English
21.	Quality assurance methods	Internal evaluation and student questionnaires

22.	Literature					
	22.1.	Compulsory				
		No.	Authors	Title	Publisher	Year
		1.	Ellen M. Voorhees and Donna K. Harman	Experiment and Evaluation in Information Retrieval	MIT Press	2005
		2.	Christopher D. Manning, Prabhakar Raghavan and Hinrich Schütze	Introduction to Information Retrieval	Cambridge University Press	2008
		3.	Ricardo Baeza-Yates and Ribeiro-Neto	Modern Information Retrieval	ACM Press Series/Addison Wesley, New York	1999
	22.2.	Additional				
		No.	Authors	Title	Publisher	Year
		1.				
		2.				
		3.				